

## Recovery Plan Action Status

**Plan Name:** Vahl's Boxwood Recovery Plan

**Plan Status:** Final

**Plan Date:** 28-Apr-87

**Lead Agency:** USFWS

**Lead Office:** Caribbean Ecological Services Field Office

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Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Vahl's boxwood (Buxus vahliei)	1	111	Cooperative agreements with PREPA for Punta Higuero.	Not Started			Puerto Rico Department of Natural Resources, USFWS Regional Office 4, U.S. Fish and Wildlife Service - Endangered Species Program, Puerto Rico Electric Power Authority	Other	Internal Administrative	Duration is 1 year. Alternative to Task 111 for Punta Higuero.
Vahl's boxwood (Buxus vahliei)	1	111	Obtain protective status for two known population sites.	Not Started			Puerto Rico Department of Natural Resources, USFWS Regional Office 4, U.S. Fish and Wildlife Service - Endangered Species Program, Conservation Trust of Puerto Rico, Puerto Rico Electric Power Authority	Other	Internal Administrative	Duration is 5 years.
Vahl's boxwood (Buxus vahliei)	2	112	Control access at Punta Higuero.	Not Started			Puerto Rico Department of Natural Resources, USFWS Regional Office 4, U.S. Fish and Wildlife Service - Endangered Species Program, Puerto Rico Electric Power Authority	Management: Land Use	Contract	Duration is 3 years.
Vahl's boxwood (Buxus vahliei)	1	121	Monitor known populations.	Ongoing Current	Prior to FY 1995	FY 2012	Puerto Rico Department of Natural Resources, USFWS Regional Office 4, U.S. Fish and Wildlife Service - Endangered Species Program	Management: Population Monitoring	Contract, Graduate Student, Internal Administrative, Species Expert	Populations are been monitored as part of the 5 year review of the species.

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Vahl's boxwood (Buxus vahlII)	1	122	Enforce Commonwealth regulations prohibiting take.	Ongoing Current	Prior to FY 1995	FY 2012	U.S. Fish and Wildlife Service, Law Enforcement Division, Puerto Rico Department of Natural Resources, USFWS Regional Office 4, U.S. Fish and Wildlife Service - Endangered Species Program	Other: Law Enforcement	Internal Administrative	
Vahl's boxwood (Buxus vahlII)	2	123	Educate public on plant conservation values and regulations.	Ongoing Current	Prior to FY 1995	FY 2012	Puerto Rico Department of Natural Resources, USFWS Regional Office 4, U.S. Fish and Wildlife Service - Endangered Species Program	Other: Information and Education	Internal Administrative	
Vahl's boxwood (Buxus vahlII)	2	21	Continue search for new populations.	Ongoing Not Current	FY 2006	FY 2012	Puerto Rico Department of Natural Resources, USFWS Regional Office 4, U.S. Fish and Wildlife Service - Endangered Species Program	Research: Other Information	Contract, Graduate Student	
Vahl's boxwood (Buxus vahlII)	2	31	Define habitat requirements.	Partially Complete	Prior to FY 1995	FY 2012	Universities, Puerto Rico Department of Natural Resources, USFWS Regional Office 4, U.S. Fish and Wildlife Service - Endangered Species Program	Research: Habitat Requirements	Graduate Student, Species Expert	Duration is 3-5 years.
Vahl's boxwood (Buxus vahlII)	2	32	Determine reproductive biology and ecology.	Partially Complete	Prior to FY 1995	FY 2012	Universities, U.S. Fish and Wildlife Service - Endangered Species Program	Research: Propagation	Graduate Student, Species Expert	Duration is 3-5 years. Costs to include tasks 321, 322, and 324.
Vahl's boxwood (Buxus vahlII)	2	321	Assess periodicity of flowering and pollination mechanisms.	Not Started			Universities, U.S. Fish and Wildlife Service - Endangered Species Program	Research: Propagation	Graduate Student, Species Expert	Duration is 3-5 years.
Vahl's boxwood (Buxus vahlII)	2	322	Assess seed production and dispersal.	Partially Complete	Prior to FY 1995	FY 2012	Universities, U.S. Fish and Wildlife Service - Endangered Species Program	Research: Propagation	Graduate Student, Species Expert	Duration is 3-5 years.

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Vahl's boxwood (Buxus vahliei)	2	323	Evaluate seed viability and germination requirements.	Partially Complete	Prior to FY 1995	FY 2012	Universities, Puerto Rico Department of Natural Resources, U.S. Fish and Wildlife Service - Endangered Species Program	Research: Propagation	Graduate Student, Species Expert	Duration is 3-5 years.
Vahl's boxwood (Buxus vahliei)	2	324	Evaluate seedling establishment and growth.	Partially Complete	Prior to FY 1995	FY 2012	Universities, Puerto Rico Department of Natural Resources, U.S. Fish and Wildlife Service - Endangered Species Program	Research: Propagation	Graduate Student, Species Expert	Duration is 3-5 years.
Vahl's boxwood (Buxus vahliei)	2	33	Evaluate feasibility of artificial propagation.	Not Started			Universities, Puerto Rico Department of Natural Resources, U.S. Fish and Wildlife Service - Endangered Species Program	Research: Propagation	Graduate Student, Species Expert	Costs to include tasks 332 and 332
Vahl's boxwood (Buxus vahliei)	2	331	Evaluate relative feasibility of propagation from seed vs. cuttings.	Not Started			Botanical Gardens, Puerto Rico Department of Natural Resources, U.S. Fish and Wildlife Service - Endangered Species Program	Research: Propagation	Graduate Student, Species Expert	
Vahl's boxwood (Buxus vahliei)	2	332	Determine feasibility of ex situ production of seed and cuttings.	Not Started			Botanical Gardens, Puerto Rico Department of Natural Resources, U.S. Fish and Wildlife Service - Endangered Species Program	Research: Propagation	Graduate Student, Species Expert	
Vahl's boxwood (Buxus vahliei)	3	34	Select sites for enhancement, reintroduction, or introduction of propagated material.	Not Started	FY 2011		Puerto Rico Department of Natural Resources, U.S. Fish and Wildlife Service - Endangered Species Program	Management: Reintroduction	Labor type not yet selected	Site for reintroduction selected at El Convento in Peñuelas. About 22 individuals were planted on these area on January 2011.
Vahl's boxwood (Buxus vahliei)	3	341	Assess habitat suitability.	Not Started	FY 2011		Puerto Rico Department of Natural Resources, U.S. Fish and Wildlife Service - Endangered Species Program	Management: General	Internal Field Assistance	Area of El Convento evaluated on January 2011.

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Vahl's boxwood (Buxus vahliei)	3	342	Assess site protection.	Not Started			Puerto Rico Department of Natural Resources, USFWS Regional Office 4, U.S. Fish and Wildlife Service - Endangered Species Program, Conservation Trust of Puerto Rico	Management: Other	Internal Field Assistance	
Vahl's boxwood (Buxus vahliei)	3	41	Determine number of populations and individuals necessary to perpetuate species' existence.	Not Started			Botanical Gardens, Universities, Puerto Rico Department of Natural Resources, U.S. Fish and Wildlife Service - Endangered Species Program	Research: Population Surveys	Species Expert	
Vahl's boxwood (Buxus vahliei)	3	42	Determine additional actions necessary to achieve recovery goals.	Ongoing Current			Puerto Rico Department of Natural Resources, U.S. Fish and Wildlife Service - Endangered Species Program	Other	Internal Field Assistance	